

Figure 1d: Pair-wise difference magnitude edge detection and interpolation

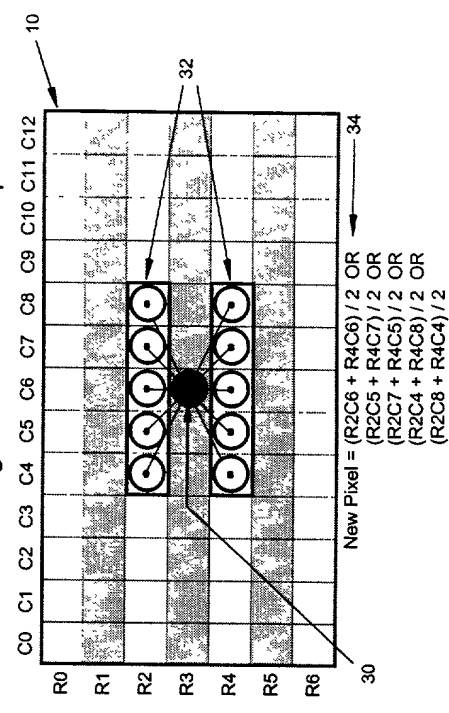


FIGURE 2A

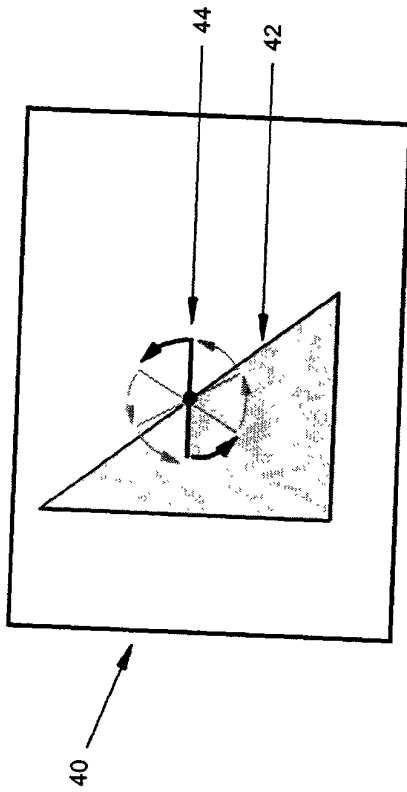


FIGURE 2B

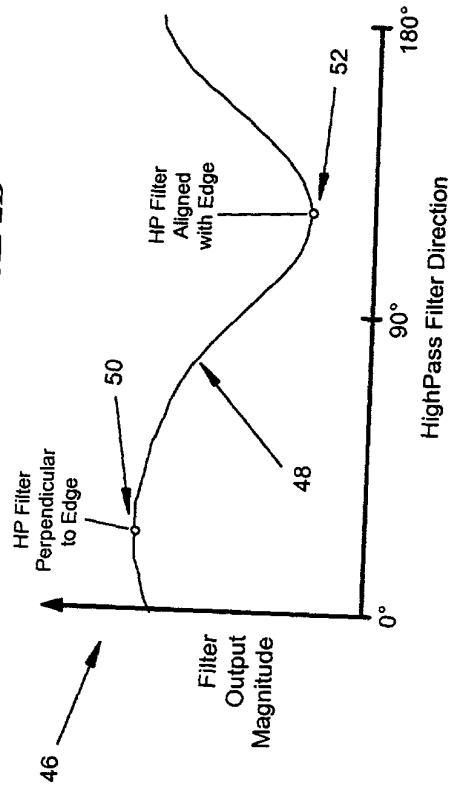


Figure 3A

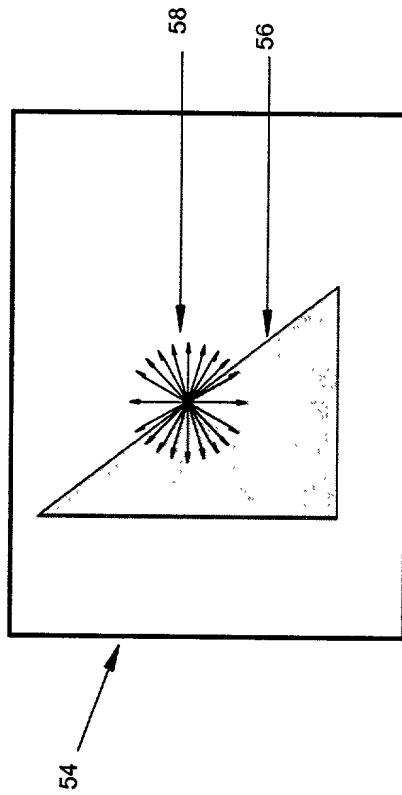


FIGURE 3B

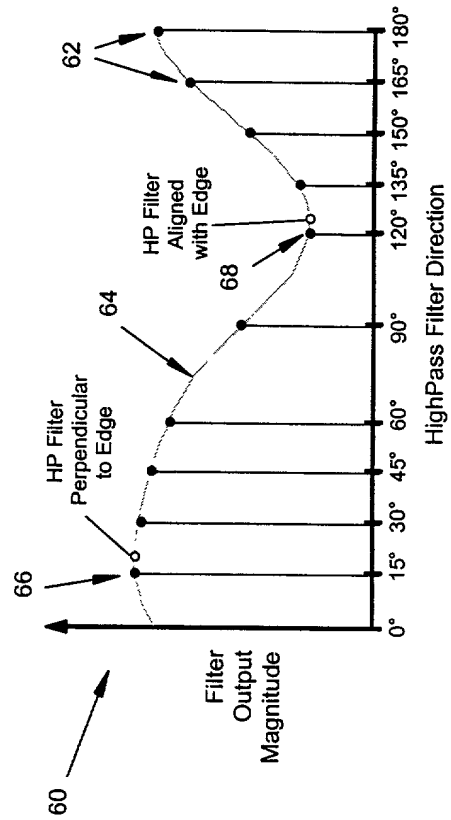
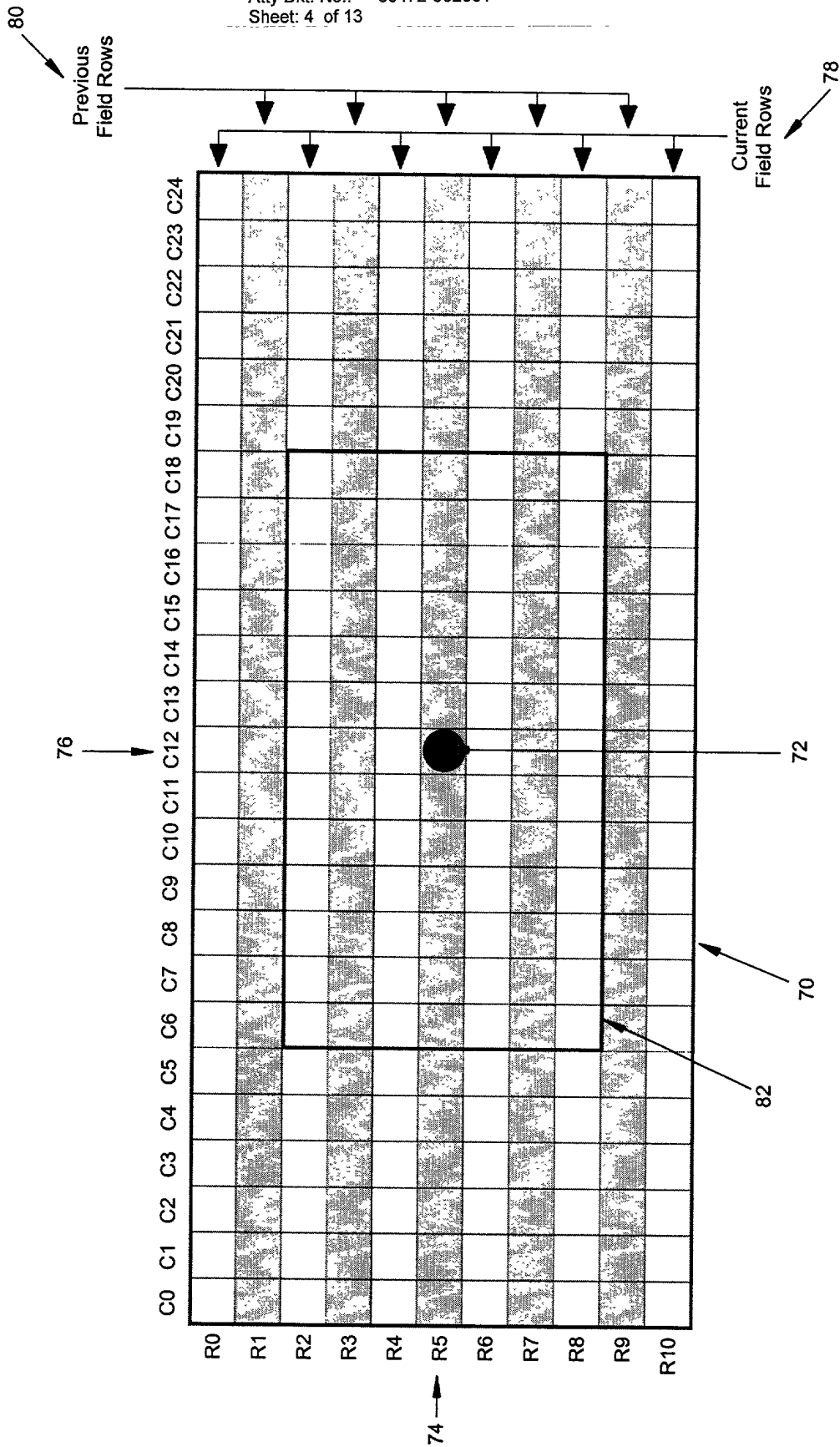
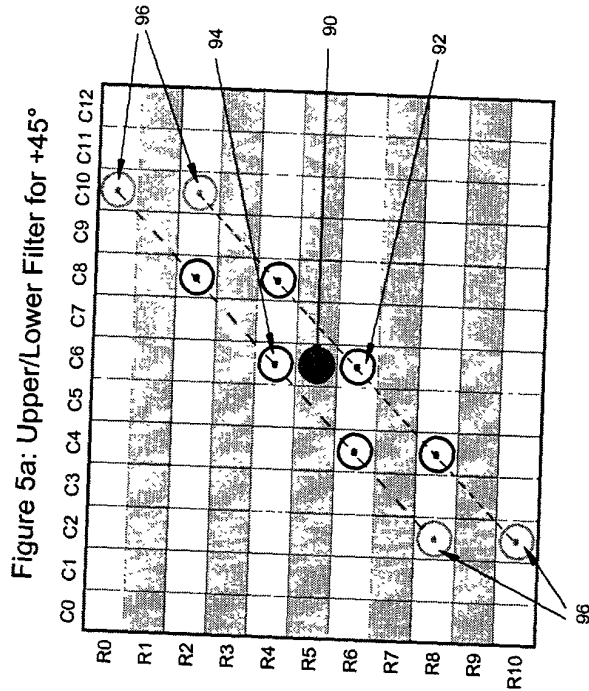
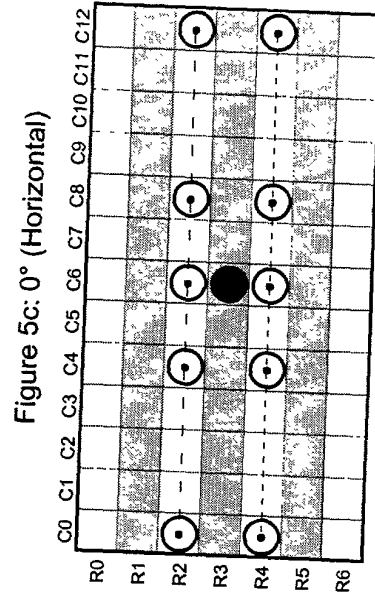
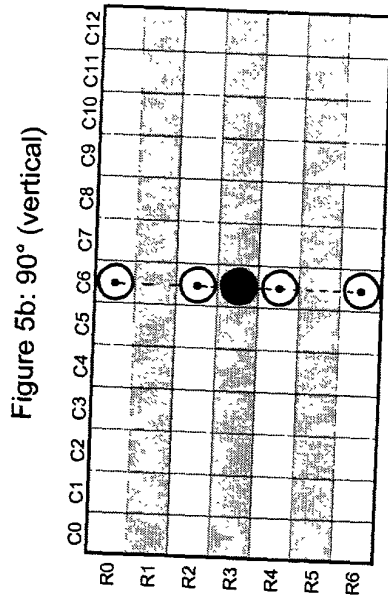
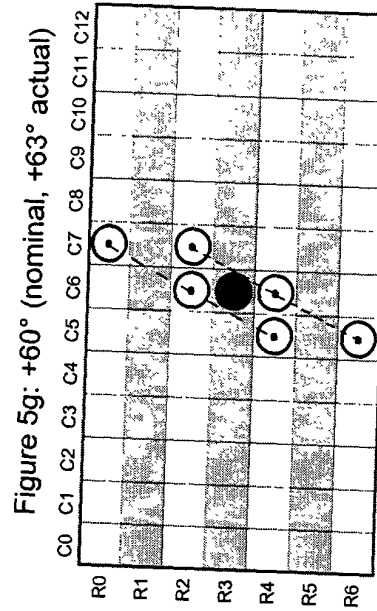
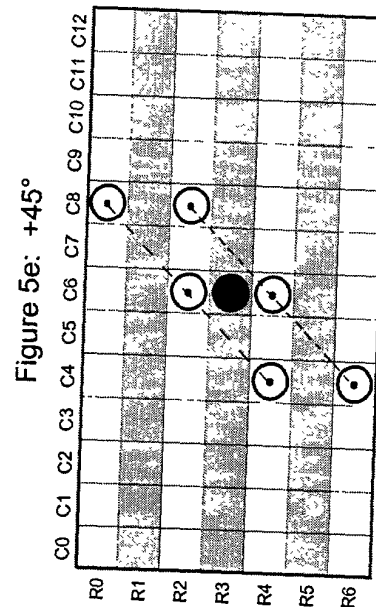
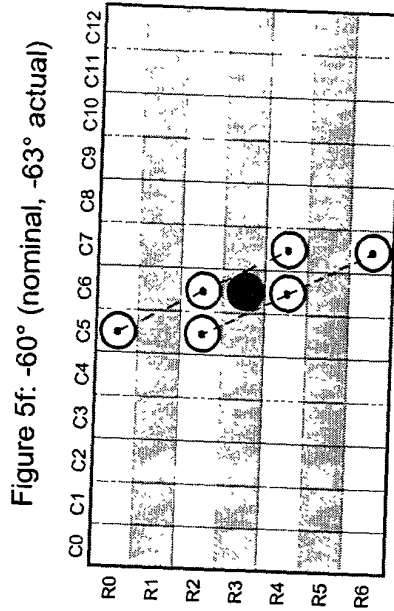
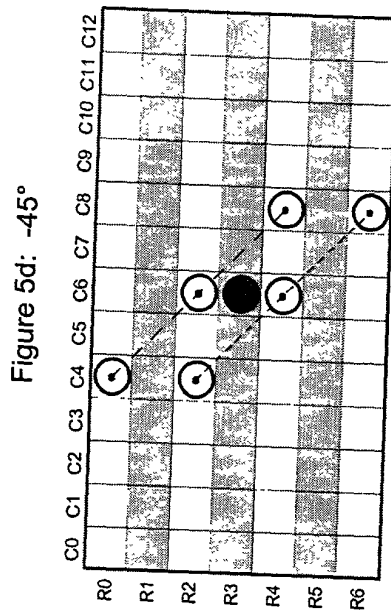


Figure 4: HighPass Filter Pixel Matrix

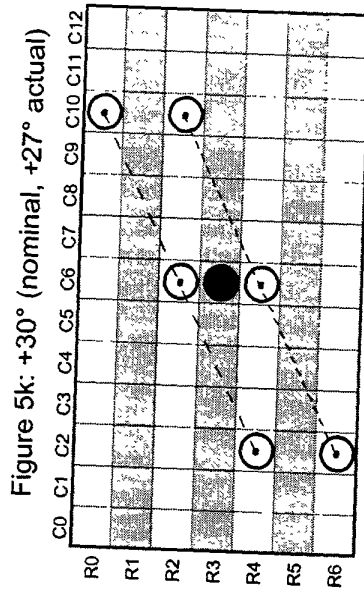
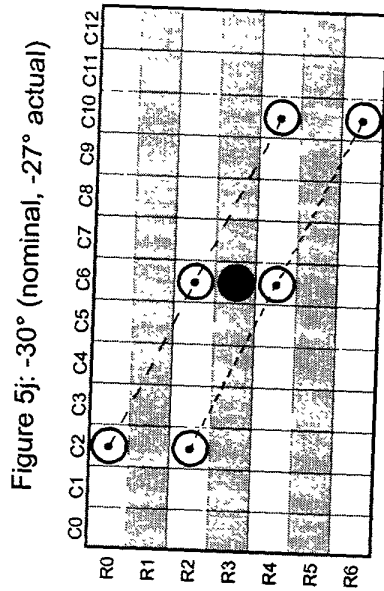
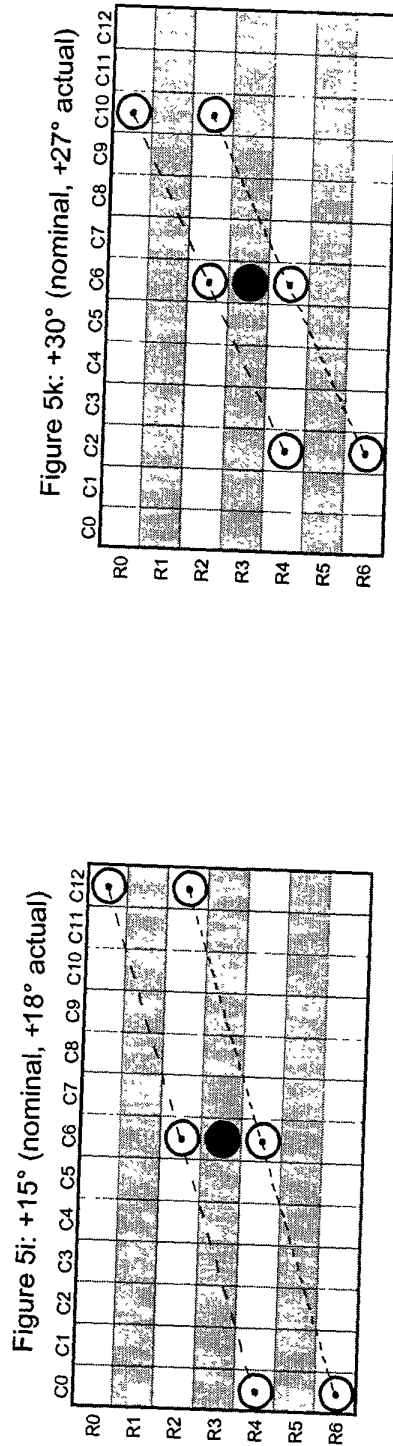
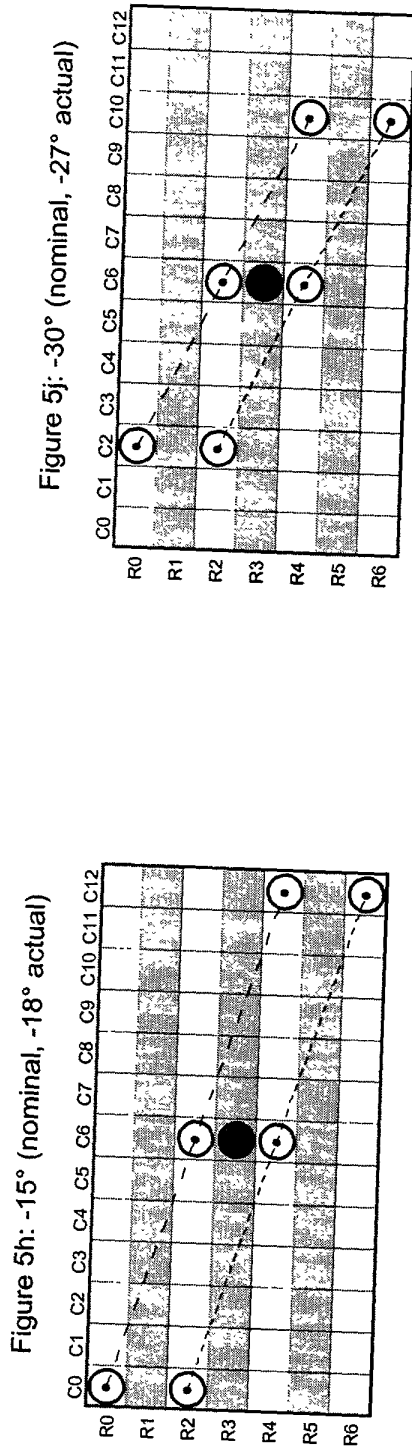




--- Filter Above
--- Filter Below



— — — — — Filter Above
— — — — — Filter Below



--- Filter Above
--- Filter Below

Figure 6: Image Feature Edge Detection Block Diagram

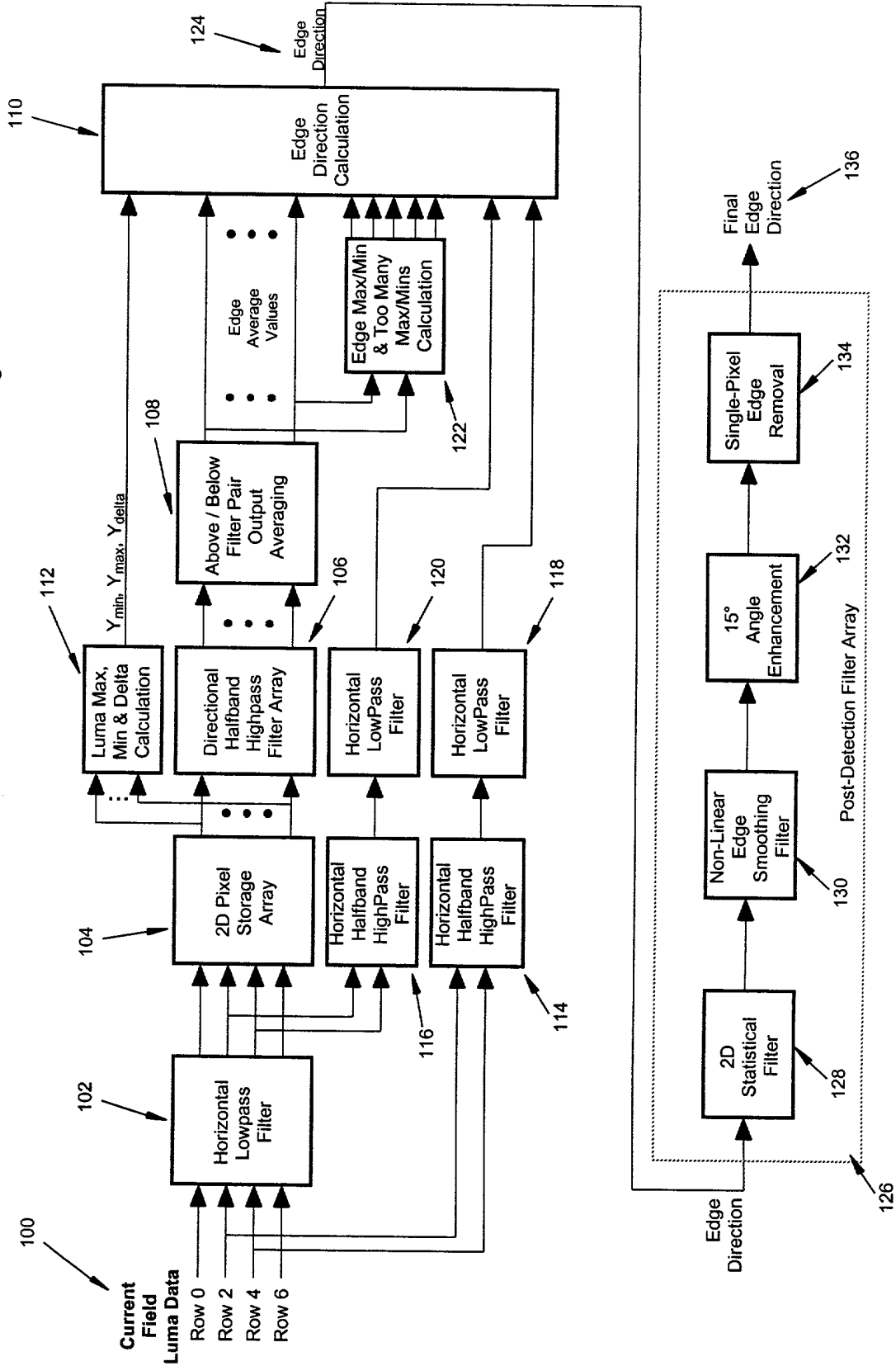


Figure 7: Edge Max/Min & Too Many Maxes/Mins Calculations

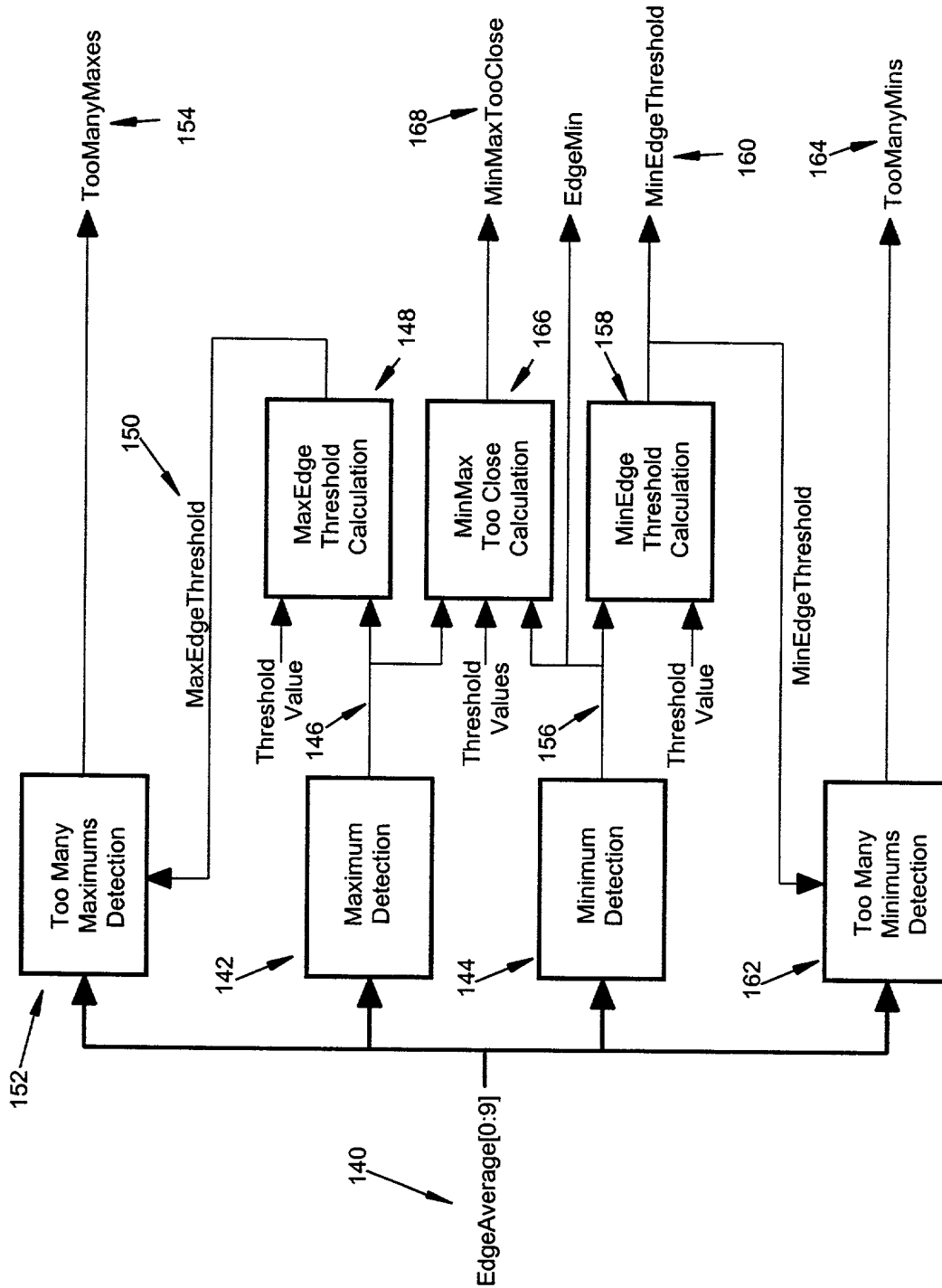


Figure 8: Edge-Based Pixel Calculation Block Diagram

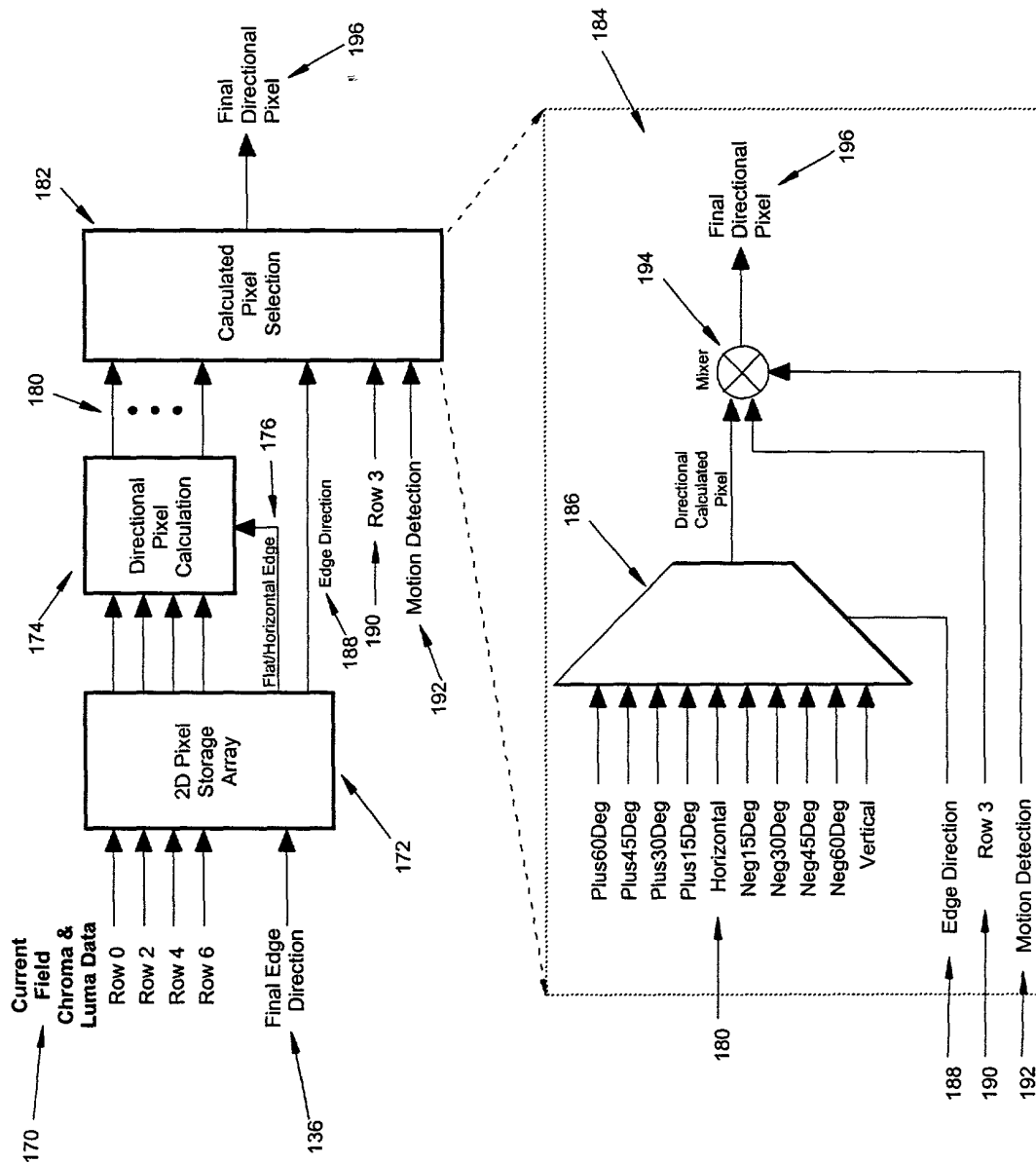


Figure 9a: 90° (vertical)

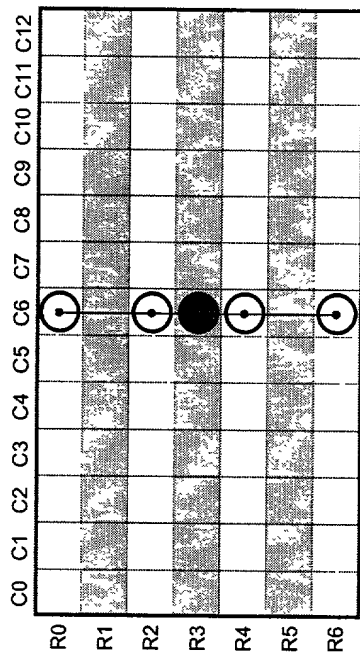


Figure 9c: -15° (nominal, -16° actual)

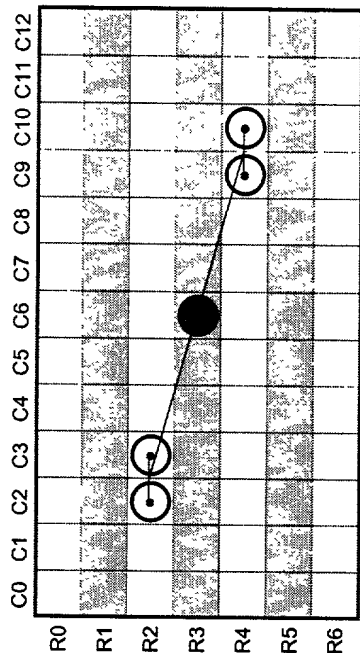


Figure 9b: 0° (horizontal)

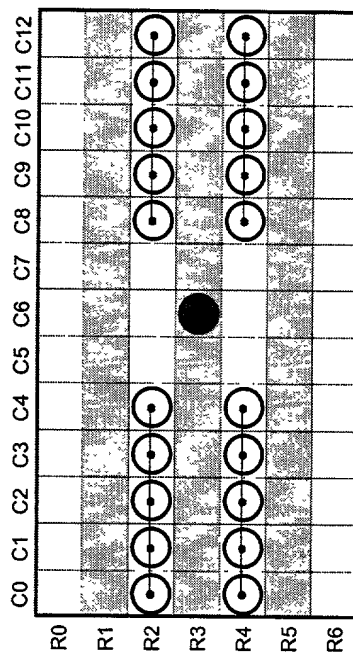


Figure 9d: +15° (nominal, +16° actual)

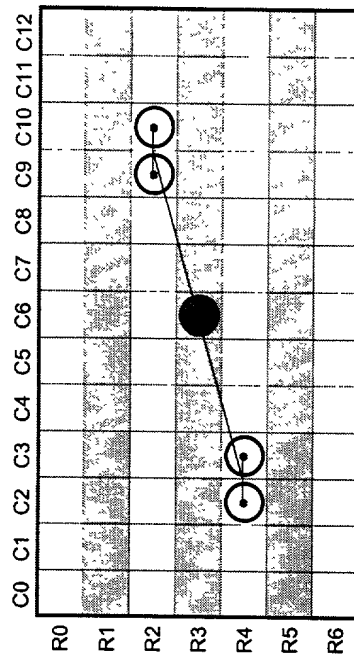


Figure 9e: -30° (nominal, -27° actual)

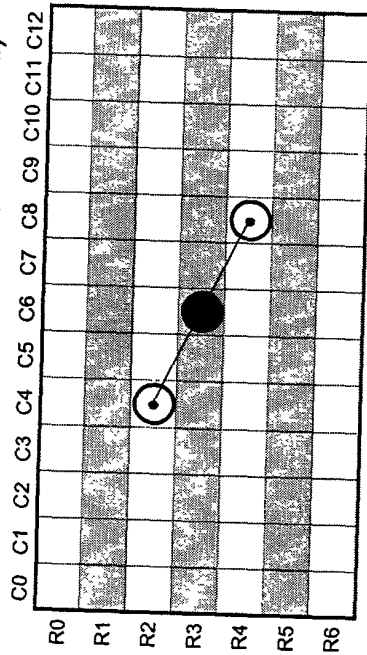


Figure 9g: -45°

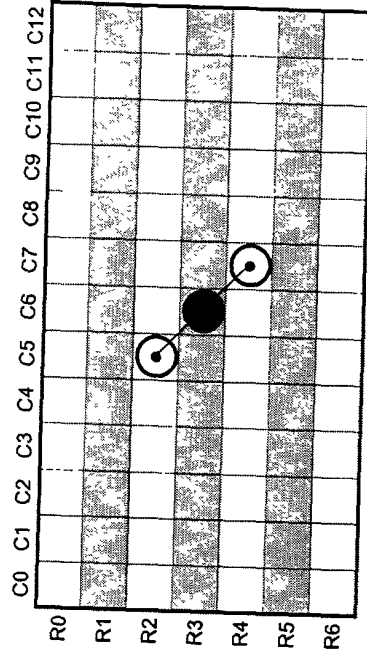


Figure 9f: +30° (nominal, +27° actual)

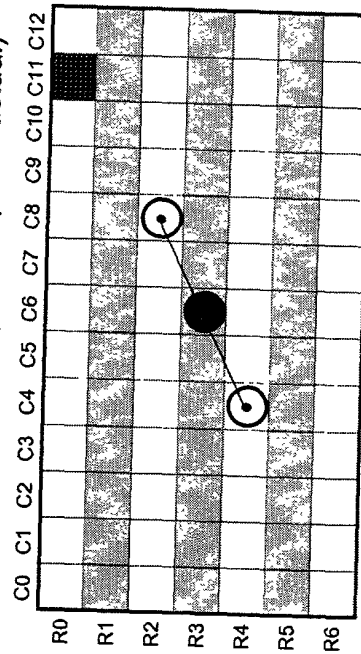


Figure 9h: +45°

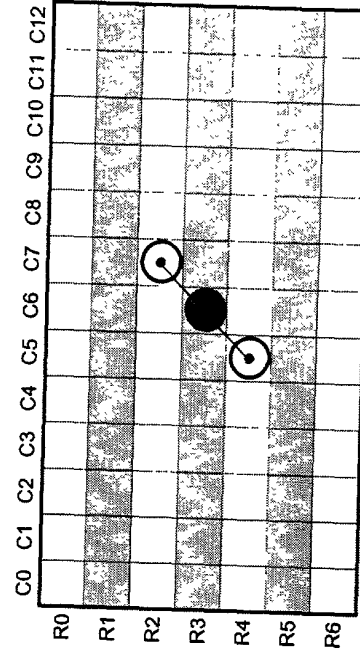


Figure 9i: -60° (nominal, -63° actual)

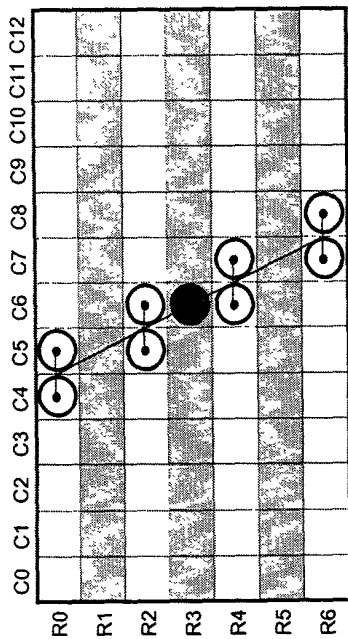


Figure 9j: +60° (nominal, +63° actual)

